

Abstract

A non-optical isolator having a driver circuit for providing an input signal to one or more first passive components which are coupled across a galvanic isolation barrier to one or more corresponding second passive components, and an output circuit that converts the signal from the second passive components to an output signal corresponding to the input signal. The entire structure may be formed monolithically as an integrated circuit on one or two die substrates, for low cost, small size, and low power consumption. The passive components may be coils or capacitor plates, for example. When the first and second passive components are capacitor plates, a Faraday shield may be provided between them, with the first and second passive components being referenced to separate grounds and the Faraday shield referenced to the same ground as the second passive components.

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